



PATENT

TFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:  
KOROLIK et al.

Application No.: 10/817,398

Filed: April 1, 2004

For: CONTROLS OF AMBIENT  
ENVIRONMENT DURING WAFER  
DRYING PROXIMITY HEAD

)  
) Group Art Unit: 1746  
)  
) Examiner: Unassigned  
)  
) Atty. Docket No. LAM2P467  
)  
) Date: July 17, 2006

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 17, 2006.

Signed: \_\_\_\_\_

Sylvia Castillo

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, (the copies of references which are not U.S. Patents have been attached), may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to consider these references and to acknowledge such consideration by initialing the appropriate location on the attached PTO Form 1449.

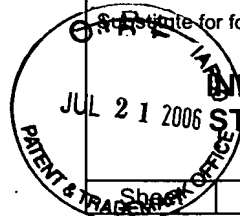
This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This IDS is believed to be filed before the mailing date of a first Office Action. Accordingly, it is believed that no fees are due in connection with the filing of this IDS. However, if it is determined that any fees are due, then the Commissioner is hereby authorized to charge such fees to Deposit Account 50-0805 (Order No. LAM2P467).

Respectfully submitted,  
MARTINE PENILLA & GENCARELLA, LLP

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See instructions for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)

Sheet 1 of 4

## Complete if Known

Application Number	10/817,398
Filing Date	April 1, 2004
First Named Inventor	KOROLIK et al.
Art Unit	1746
Examiner Name	Unassigned
Attorney Docket Number	LAM2P467

## U.S. Patent Documents

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A	2003/0091754	05/15/03	Chihani et al.	
	B	2003/0092264	05/15/03	Shinji et al.	
	C	2004/0060573	04/01/04	Woods	
	D	2004/0069329	04/15/04	De Larios et al.	
	E	2004/0136494	07/15/04	Lof et al.	
	F	2004/0178060	09/16/04	Ravkin et al.	
	G	2004/0182422	09/23/04	Boyd et al.	
	H	2005/0132515	12/18/03	Boyd et al.	
	I	2005/0139318	06/30/05	Woods et al.	
	J	2005/0145265	07/07/05	Ravkin et al.	
	K	2005/0145267	04/01/04	Korolik et al.	
	L	2005/0145268	04/01/04	Woods	
	M	2005/0148197	04/01/04	Woods et al.	

## Foreign Patent Documents

Examiner Initial	Cite No. <sup>1</sup>	Foreign Patent Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	N	EP 1 489 461 A1	12/22/04	ASML Netherlands B.V.		<input type="checkbox"/>
	O	EP 1 489 462 A2	12/22/04	ASML Holding N.V.		<input type="checkbox"/>

## Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	P	LIM et al., "Atomic Layer deposition of transition metals", Department of Chemistry and Chemical Biology, Harvard University, Nature Publishing Group, Volume 2, November 2003, Pages 749-754
	Q	ICKnowledge LLC, "Technology Backgrounder: Atomic Layer Deposition", ICKnowledge.com, 2004, Pages 1-7

Examiner Signature	Date Considered
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Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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		Number-Kind Code <sup>2</sup> (if known)			
	A	2005/0217703	10/06/05	O'Donnell	
	B	2006/0064895	03/30/06	Garcia et al.	
	C	3,953,265	04/27/76	Hood	
	D	4,637,123	01/04/83	Beck	
	E	4,444,492	04/24/84	Lee	
	F	4,838,289	06/13/89	Kottman et al.	
	G	5,102,494	04/07/92	Harvey et al.	
	H	5,180,431	01/19/93	Sugimoto et al.	
	I	5,271,774	12/21/93	Leenaars et al.	
	J	5,343,234	08/30/94	Kuehnle	
	K	5,361,449	11/08/94	Akimoto	
	L	5,472,502	12/05/95	Batchelder	
	M	5,558,111	09/24/96	Lofaro	

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		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	N	JP11031672 (Patent Abstract in English provided)	02/02/99	Hitachi Ltd.		
	O	JP62150828 A (Patent Abstract in English provided)	07/04/87	Mitsubishi Electric Corporation		<input type="checkbox"/>

### Non Patent Literature Documents

Examiner Initial	Cite No.	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	P	"Chemical vapor deposition", Wikipedia, the free encyclopedia, <a href="http://en.wikipedia.org/wiki/Chemical_vapor_deposition">http://en.wikipedia.org/wiki/Chemical_vapor_deposition</a> , 2005, Page 1-2
	Q	OWA et al. "Immersion lithography; its potential performance and issues", Proceedings of the SPIE, SPIE, Bellingham, VA, US, Vol. 5040, No. 1, February 28, 2003, pages 724-733, XP002294500

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		Number-Kind Code <sup>2</sup> (if known)			
	A	5,709,757	01/20/98	Hatano et al.	
	B	5,893,004	04/06/99	Yamamura	
	C	6,086,454	07/11/00	Watanabe et al.	
	D	6,092,937	07/25/00	Snodgrass et al.	
	E	6,103,636	08/15/00	Zahorik et al.	
	F	6,108,932	08/29/00	Chai	
	G	6,214,513	04/10/01	Cai et al.	
	H	6,230,722	05/15/01	Mitsumori et al.	
	I	6,417,117	07/09/02	Davis	
	J	6,433,541	08/13/02	Lehman et al.	
	K	6,474,786	11/05/02	Percin et al.	
	L	6,488,040	12/03/02	De Larios et al.	
	M	6,495,005	12/17/02	Colgan et al.	

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		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	N	WO 99/49504	09/30/99	Nippon Kogaku KK		<input type="checkbox"/>
	O	WO 03/014416 A2	02/20/03	Ebara Corporation		<input type="checkbox"/>

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	P	SIGMA-ALDRICH, "Atomic Layer Deposition (ALD)", <a href="http://www.sigmaaldrich.com/Area_of_Interest/Chemistry/Materials_Science/Thin_Films">http://www.sigmaaldrich.com/Area_of_Interest/Chemistry/Materials_Science/Thin_Films</a> , 2005, Pages 1-2
	Q	

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		Number-Kind Code <sup>2</sup> (if known)			
	A	6,530,823	03/11/03	Goodarz et al.	
	B	6,550,988	04/22/03	Sugimoto et al.	
	C	6,616,772	09/09/03	De Larios et al.	
	D	6,689,323	02/10/04	Fisher et al.	
	E	6,764,720	07/20/04	Pui et al.	
	F	6,799,584	10/05/04	Yogev et al.	
	G	6,854,473	02/15/05	Hanson et al.	
	H	6,954,993	10/18/05	Smith et al.	
	I	6,988,326	01/24/06	O'Donnell et al	
	J	6,988,327	01/24/06	Garcia et al.	
	K	7,000,622	02/21/06	Woods et al.	
	L	7,069,937	07/04/06	Garcia et al.	
	M				

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		Country Code <sup>3</sup> -Number- <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	N	WO 02/32825 A1	04/25/02	The Regents of the University of California		<input type="checkbox"/>
	O	WO 2004/030051 A2	04/08/04	Lam Research Corporation		<input type="checkbox"/>

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	P	
	Q	

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